

Claims

1. A solid phytase composition comprising:
 - (a) an enzyme having phytase activity, and
 - 5 (b) a lactic acid source,
wherein the phytase activity of the composition is above 20 units/g.
- 10 2. The composition of claim 1, wherein the lactic acid source comprises at least 10% lactic acid.
- 15 3. The composition of claim 1, which comprises lactic acid in an amount of 0.01 - 10%.
4. The composition of claim 1, wherein the lactic acid source is
15 Corn Steep Liquor (CSL).
- 20 5. The composition of claim 4, the chromatogram of which, when analyzed by HPLC according to Example 8 herein, reveals the presence of one or more of peaks 1-10.
- 25 6. The composition of claim 4, comprising CSL in an amount of 0.01 - 15%.
7. The composition of claim 1, further comprising a starch source.
- 25 8. The composition of claim 1, further comprising a disaccharide.
9. The composition of claim 1, additionally comprising a carrier material.
- 30 10. The composition of claim 1, additionally comprising a filler material.
- 35 11. The composition of claim 1, additionally comprising one or more vitamins, one or more minerals or a mixture of both.

12. A process for preparing a solid phytase composition which comprises drying a lactic acid source together with an enzyme having phytase activity, wherein the phytase activity of the solid composition is above 20 units/g.

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13. The process of claim 12, wherein the lactic acid source is Corn Steep Liquor (CSL).

14. The process of claim 12, wherein the solid phytase composition is a phytase granulate composition, and which process comprises:

- (a) spraying the enzyme having phytase activity onto a carrier;
- (b) spraying the lactic acid source onto the carrier;
- (c) mixing; and
- (d) drying.

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15. The process of claim 12, wherein the drying is a spray-drying.

16. The process of claim 12, further comprising the addition of one or more starch sources.

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17. The process of claim 12, further comprising the addition of one or more disaccharides.

18. A solid composition having a phytase activity above 20 units/g and being obtainable by the process of claim 12.

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19. A solid phytase composition consisting essentially of:
(a) an enzyme having a phytase activity of above 20 FYT/g of the composition, and
(b) a lactic acid source in an amount of 0.01-15% by weight to provide lactic acid in an amount sufficient to stabilize the enzyme.

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20. The composition of claim 19, wherein the lactic acid is present in an amount of 0.01 - 10%.

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21. The composition of claim 19, having a chromatogram determined by HPLC, which has one or more of peaks 1-10.
22. The composition of claim 19, further consisting essentially of a
5 starch material.
23. The composition of claim 19, further consisting essentially of a disaccharide.
- 10 24. The composition of claim 19, further consisting essentially of a carrier material.
25. The composition of claim 19, further consisting essentially of a filler material.
- 15 26. The composition of claim 19, further consisting essentially of one or more vitamins, one or more minerals or a mixture of both.
- 20 27. The solid phytase composition of claim 19, wherein the enzyme has a phytase activity of at least 25 FYT/g of the composition.
28. The solid phytase composition of claim 27, wherein the enzyme has a phytase activity of at least 50 FYT/g of the composition.
- 25 29. The solid phytase composition of claim 28, wherein the enzyme has a phytase activity of at least 100 FYT/g of the composition.
30. The solid phytase composition of claim 29, wherein the enzyme has a phytase activity of at least 250 FYT/g of the composition.
- 30 31. The solid phytase composition of claim 30, wherein the enzyme has a phytase activity of at least 500 FYT/g of the composition.
- 35 32. The solid phytase composition of claim 31, wherein the enzyme has a phytase activity of at least 750 FYT/g of the composition.

33. The solid phytase composition of claim 32, wherein the enzyme has a phytase activity of at least 1000 FYT/g of the composition.